

ABSTRACT:

Polymeric substrate are coated by a process comprising pretreating the polymeric substrate by at least one physical method selected from the group consisting of corona discharge, flaming, glow discharge, irradiation with electromagnetic waves, and a plasma pretreatment, then coating the pretreated polymeric substrate with a composition comprising a fluoroalkyl-containing silicon compound. The resulting coated is very thin, highly hydrophobic and oleophobic. The coatings prepared by the process of the present invention are stable in boiling water and are resistant to abrasion.

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